

SN. 10/648,050

ATTORNEY DOCKET NO. FUJI:272

IN THE DRAWINGS

Applicants submit corrected formal Figs. 11-13 with the legend "Prior Art," as required by the examiner.

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REMARKS

Claims 1-20 remain pending in this application for which applicants seek reconsideration.

Amendment

Figs. 11-13 now contain the legend "Prior Art" to obviate the drawing objection. No claim has been amended.

Allowed and Allowable Claims

Claims 19 and 20 have been allowed, and claims 7-12, 17, and 18 have been indicated to be allowable if they are placed in independent form. As applicants believe claim 1 to patentably distinguish over the applied references, the allowable claims have been maintained as dependent claims.

Art Rejection

Claim 1 was rejected under 35 U.S.C. § 102(b) as anticipated by Suzuki (USP 6,177,704), and claims 2-6 and 13-16 were rejected under 35 U.S.C. § 103(a) as unpatentable over Suzuki in view of Fujishima (USP 5,701,026). Applicants traverse these rejections because neither Suzuki nor Fujishima would have taught the trenches aligned in the width direction of the channels formed beneath the gate insulation film.

Claim 1 calls for a semiconductor structure having a source region, a drain region, and trenches formed in one side of a semiconductor region. The trenches are formed between the source region and the drain region in the same one side of the semiconductor region, and spaced apart laterally from the source region. The trenches are also aligned in the width direction of the channels formed beneath the gate insulation film. In other words, the trenches extend perpendicular to the width direction of the channels. See paragraph 32 and Figs. 1 and 3 for example.

Suzuki does not have trenches that are aligned in the width direction of the channels formed beneath the gate insulation film. In other words, Suzuki's trenches 32 do not extend perpendicularly into the plane of the paper (Fig. 1). Rather, Suzuki's trenches 32 extend left-right or side-by-side along the plane of the sheet (Fig. 1). Fujishima would not have alleviated Suzuki's shortcomings. Accordingly, neither Suzuki nor the combination of Suzuki and Fujishima would not have disclosed or taught the structure set forth in claim 1.

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Conclusion

Applicants submit that claims 1-20 patentably distinguish over the applied references and are in condition for allowance. Should the examiner have any issues concerning this reply or any other outstanding issues remaining in this application, applicants urge the examiner to contact the undersigned to expedite prosecution.

Respectfully submitted,

ROSSI, KIMMS & McDOWELL LLP

23 JUNE 2005

DATE


LYLE KIMMS

REG. NO. 34,079 (RULE 34, WHERE APPLICABLE)

P.O. BOX 826
ASHBURN, VA 20146-0826
703-726-6020 (PHONE)
703-726-6024 (FAX)